

Conduit and fittings
Low smoke halogen free







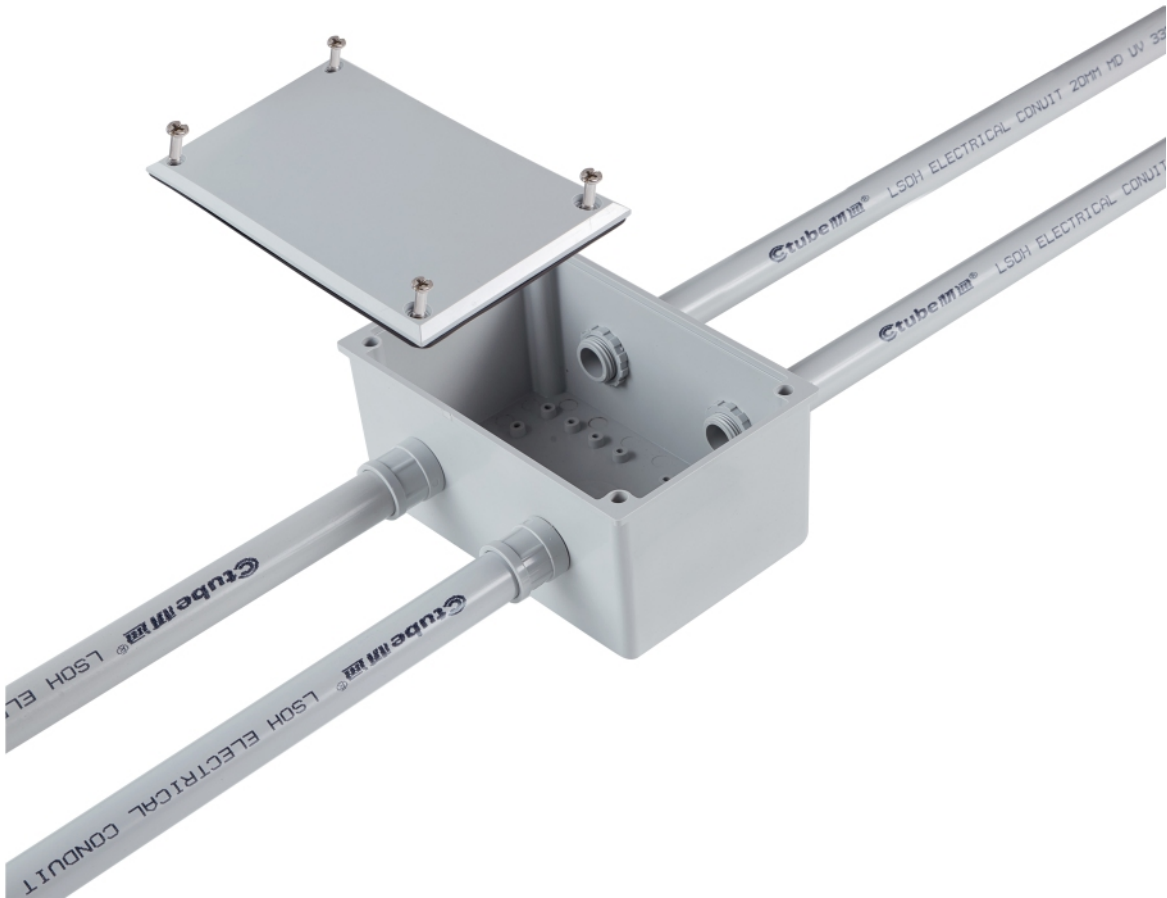
ABOUT US

Guangdong Ctube Industry Co., Ltd is a professional research and development , manufacturing and sales of highest quality AS/NZS 2053 electrical conduits & fittings, solar conduits & fittings, Low smoke halogen conduits & fittings, UL651 electrical conduits & fittings, CSA electrical conduits & fittings, etc.We have established more than ten years of product development and production experience , passed the ISO 9001, ISO14001 certification. Our factory accupies more than 100,000 square meters and have modern manufacturing of 50 injection and 30 extruder machines. We support customization for special projects.

CTUBE AS/NZS 2053 electrical conduits & fittings are AS/NZS 2053 approved. This series of conduits and fittings, both have good impact resistance and compression resistance, the flame retardant level reaches V0 and UV resistance, suitable for indoor and outdoor projects.



we design innovative
conduit systems that protect
people and their property



Low smoke halogen free conduit system

In case of a fire accident, the chlorine released from conventional plastics (halogenated) reacts with the humidity of the atmosphere producing hydrochloric acid which is dangerous and harmful both to people and environment.

CTUBE halogen free and low smoke conduit systems have been designed in such a way in order to develop an additional protection in a burning building.



What halogen free?

Conduits for electrical installations need specific features to fulfil increased safety requirements that are low smoke, flame retardent, zero halogen.



Why halogen free?

In case of a fire accident, toxic and dense smoke caused by burning plastics poses a massive threat which is dangerous and harmful to both people and environment.



Ensure you safety

During combustion halogens produce gases, soot and chemical residues that generate dark and dense smoke waves which reduce the visibility of escape routes and hinder evacuation operations by rescue crews.



Protect your equipment

The corrosive gases that will result from the combustion of halogenated plastic materials can damage all areas exposed to somke and cause severe corrosion in a particularly short time.

Low smoke halogen free conduit system

conduit systems have been exclusively designed for construction projects where safety, reliability and reduced environmental footprint are top priority. Their main advantages are as follows:



In case of a fire accident, they don't release toxic and corrosive gases during combustion, protecting people and environment.



In case of a fire accident, they ensure better visibility of escape routes due to their low smoke emission.



They provide higher protection of building facilities and mechanical equipment due to the absence of corrosive gases during their combustion.



They ensure high impact resistance in extreme low temperature conditions (at -45°C).



They contain flame retardants that reduce flame propagating.



They achieve a low environmental footprint as they fully satisfy RoHS, IEC, CE, ISO and REACH European regulations concerning the use of hazardous and chemical substances respectively.



the design



Need

Preventing adverse incidents with fatal outcomes due to the use of unsuitable building materials in public gathering places.



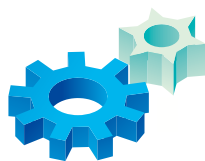
Research

Designing a product made from top quality raw materials that will not release any toxic or corrosive gases or emit a dense wave of smoke in case of fire.



Manufacturing technology

Halogen free and low smoke raw materials supplied by the top plastic manufacturers as well as the design of a fully-automated production line (extruders and injections) of latest technology.



Generation

Two integrated conduit systems, available in heavy and medium type according to their compression resistance, with brand names CTUBE in nominal outer diameters from Ø16 to Ø63, along with a complete series of fittings (bends, couplers, clips, adaptors) and junction boxes.

IEC61034-2

Report No. TC.20.04.001569 Date of Issue 05/13/2020

Report No. TC.20.04.001569 Date of Issue 05/13/2020

Test Results: IEC 61034-2:2019 Measurement of smoke density of cables under defined conditions Part 2. Test procedures and requirements

Applicant: GuangJing Cable Industry Co., Ltd. Description of the test subject: Table with Sample, Description, Photo

Conclusion: Table with Test item, Item, Standard, Conclusion

Conclusion: Table with Test item, Item, Standard, Conclusion

Logistics: Signatures and stamps

Logistics: Signatures and stamps

IEC60670

TEST REPORT: Name of product, Quantity of sample, Sample identification, Test results

TEST REPORT: Summary of test results, Table with Model (Ecc), Group, Model (Ecc), Group

Component list table: Table with Object part no., Manufacturer/Trademark, Material, Type, Technical data, Standard approval

Component list table: Table with Object part no., Manufacturer/Trademark, Material, Type, Technical data, Standard approval

IEC61386-1,-21

TEST REPORT: Test item parameters, Test results, Summary of test results

TEST REPORT: Summary of test results, Table with Model (Ecc), Group, Model (Ecc), Group

Component list table: Table with Object part no., Manufacturer/Trademark, Material, Type, Technical data, Standard approval

Component list table: Table with Object part no., Manufacturer/Trademark, Material, Type, Technical data, Standard approval

IEC60754-2



Report No. TC.20.09.004363
Date of Issue 09/14/2020

Applicant: Guangdong Ctube Industry Co.Ltd
Applicant address: ChenTang Niuis Industry, Jiaoli Village, ZhongTang Town, DongGuan City, China
Description of the test subject:

Sample	Description	Photo
001	<p>Sample Description: HF Band, HF Chateau Junction box 4 way, HF Deep Junction box 1-4 way, HF Adaptable box, HF pipe elbow, HF acid elbow, HF inspection tee, HF Clips, HF adapters with male thread and lock ring, HF couplers, HF Tube</p> <p>Style No.: 16mm, 20mm, 25mm, 32mm, 40mm, 50mm, 63mm</p> <p>Manufacturer: Guangdong Ctube Industry Co., Ltd</p> <p>Country of origin: China</p>	

Receipt Date of Sample: 09/03/2020
Date of Testing: From 09/10/2020 to 09/11/2020
Sample submitted: The sample(s) was (were) submitted by applicant and identified.

Conclusion:

Test Items	Items	Standard	Conclusion
1	Determination of acidity (by pH measurement) and conductivity	IEC 60754-2:2011	Pass

Note: (1) Certificate of Conformity as mentioned overleaf (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full and without the prior approval of the company (4) Samples are tested as received.

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Report No. TC.20.09.004363
Date of Issue 09/14/2020

Applicant: Guangdong Ctube Industry Co.Ltd
Applicant address: ChenTang Niuis Industry, Jiaoli Village, ZhongTang Town, DongGuan City, China
Description of the test subject:

Test Results

1. IEC 60754-2:2011 Test on gases evolved during combustion of materials from cables - part 2: Determination of acidity (by pH measurement) and conductivity

1.1 Sample details

Precondition	Temperature (°C)	Humidity (%)	Duration(h)
	23±2	50±5	16

1.2 Test Result

pH	Result			Average
	1	2	3	
4.81	4.78	4.75	4.71	
Conductivity(µs/cm)	0.258	0.261	0.242	0.244

Requirement: pH is 4.3, Conductivity ≤10 µs/cm
Conclusion: Pass

Photo of finished product:

Statement: The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential smoke and toxicity hazard of the product in use. Test results are just for internal reference.

Note: (1) Certificate of Conformity as mentioned overleaf (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full and without the prior approval of the company (4) Samples are tested as received.

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Report No. TC.20.09.004363
Date of Issue 09/14/2020

Applicant: Changzhou Jintao Railway Transportation Technical Service Co., Ltd
Applicant address: Changzhou Jintao Railway Transportation Technical Service Co., Ltd
Description of the test subject:

Test Results

1. IEC 60754-2:2011 Test on gases evolved during combustion of materials from cables - part 2: Determination of acidity (by pH measurement) and conductivity

1.1 Sample details

Precondition	Temperature (°C)	Humidity (%)	Duration(h)
	23±2	50±5	16

1.2 Test Result

pH	Result			Average
	1	2	3	
4.81	4.78	4.75	4.71	
Conductivity(µs/cm)	0.258	0.261	0.242	0.244

Requirement: pH is 4.3, Conductivity ≤10 µs/cm
Conclusion: Pass

Photo of finished product:

Statement: The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential smoke and toxicity hazard of the product in use. Test results are just for internal reference.

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UL 94



Report No. TC.20.07.002836
Date of Issue 07/10/2020

Applicant: Guangdong Ctube Industry Co., Ltd
Applicant address: ChengTang Niuis Industry, Jiaoli Village, ZhongTang Town, DongGuan City, China
Description of the test subject:

Sample	Description	Photo
001	<p>Sample Description: HF Band, HF Chateau Junction Box 4 way, HF Deep Junction Box 4 way, HF Adaptable Box, HF 90 pipe elbow, HF acid elbow, HF inspection tee, HF Clips, HF Adaptors with male thread and lock ring, HF Couplers, Tube</p> <p>Style No.: 16mm, 20mm, 25mm, 32mm, 40mm, 50mm, 63mm</p> <p>Manufacturer: Ctube II@</p>	

Receipt Date of Sample: 07/03/2020
Date of Testing: From 07/09/2020 to 07/10/2020
Sample submitted: The sample(s) was (were) submitted by applicant and identified.

Conclusion:

Test Items	Items	Standard	Conclusion
1	Vertical Burning Test	UL 94 2013	V-0

Note: (1) Certificate of Conformity as mentioned overleaf (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full and without the prior approval of the company (4) Samples are tested as received.

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Report No. TC.20.07.002836
Date of Issue 07/10/2020

Applicant: Guangdong Ctube Industry Co., Ltd
Applicant address: ChengTang Niuis Industry, Jiaoli Village, ZhongTang Town, DongGuan City, China
Description of the test subject:

Test Results

1. UL 94-2013 Plastic flammability test for electrical equipment

1.1 Sample details

Size of the samples	125mm*13mm
Diameter	About 1.6 mm
Number of the samples	50

Pre-conditioning

Quantity	Temp: 70°C	168 h
5 pieces		
Quantity	Temp: 23±2 °C	48 h
5 pieces		
	Humidity: 50±5 %	

1.2 Test Results

	Before aging					After aging				
	1	2	3	4	5	1	2	3	4	5
t(N)	0	0	1	0	1	0	1	0	1	1
t(N)	1	2	1	1	2	2	1	3	2	2
t(N)	0	0	0	0	0	0	0	0	0	0
Burn up to the holding clamp(Y/N)	N	N	N	N	N	N	N	N	N	N
Ignited the cotton(Y/N)	N	N	N	N	N	N	N	N	N	N

Remarks:
 t₁ - After flame time after first flame application, s
 t₂ - After flame time after second flame application, s
 t₃ - Afterglow time after the second flame application, s
 Y - Observed
 N - Not Observed

1.3 Requirement:

Criteria conditions	V-0	V-1	V-2
Afterflame time for each individual specimen (t ₁ or t ₂)	≤10s	≤30s	≤50s
Total afterflame time for any condition set (t ₃ plus t ₂ for the 5 specimens)	≤50s	≤250s	≤250s

Note: (1) Certificate of Conformity as mentioned overleaf (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full and without the prior approval of the company (4) Samples are tested as received.

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Report No. TC.20.07.002836
Date of Issue 07/10/2020

Applicant: Changzhou Jintao Railway Transportation Technical Service Co., Ltd
Applicant address: Changzhou Jintao Railway Transportation Technical Service Co., Ltd
Description of the test subject:

Afterflame plus afterglow time after the second flame application (t ₃ plus t ₂)	≤20s	≤50s	≤25s
Afterflame or afterglow of any specimen up to the holding clamp	No	No	No
Cotton indicator ignited by flaming particles or drops	No	No	Yes

1.4 Conclusion:

Rating	V-0

Photo of finished product:

Statement: The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential smoke and toxicity hazard of the product in use. Test results are just for internal reference.

Note: (1) Certificate of Conformity as mentioned overleaf (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full and without the prior approval of the company (4) Samples are tested as received.

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Low and high temperature

Report No. TC.20.07.002839
Date of Issue 07/10/2020



Applicant: Guangdong Ctube Industry Co., Ltd
Applicant address: ChangTang Niusu Industry, Jieshi Village, ZhongTang Town, Dongguan City, China

Sample	Description	Photo
001	Name: 30°HP Bent, HP 2"Shallow Junction Box 4 way, HF Deep Junction Box 4 way, HF adaptation box, HF 90 pipe elbow, HF inlet elbow, HF Transition Tee, HF Cross, HF Adaptors with male thread and lock ring, HF Couplers, Tube Style No: 16mm, 20mm, 25mm, 32mm, 40mm, 50mm, 63mm Manufacturer: Ctube®	

Receipt Date of Sample: 07/02/2020
Date of Testing: From 07/02/2020 to 07/10/2020
Sample submitted: The sample(s) was (were) submitted by applicant and identified.

Conclusion:

No.	Items	Standard	Result
1	High and low temperature test	Client's requirement	Pass

Remark: Date of the report is quoted in TC.20.07.002839.

Note: CTI (Certificate of Test Item) Conditions are mentioned in standard (2) The results relate only to the items tested. (3) The test report shall not be reproduced except in full without the prior approval of the company. (4) Samples are tested as received.
 Changzhou Jinbaiao Railway Transportation Technical Service Co., Ltd. Phone: +86 (519) 8121 9811 Fax: +86 (519) 8121 9812 Mail: 13 E-mail: jtb@jtb.com.cn
 No. 166, Shui Road, Lucheng 10, East, Wujin District, Changzhou City, Jiangsu Province, 213031 P.R. China 1/3 TUV®

Report No. TC.20.07.002839
Date of Issue 07/10/2020



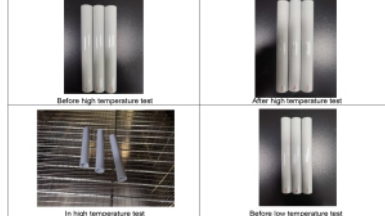
Test Results

1. High and low temperature test

High temperature test conditions: 110°C ± 50h
Low temperature test conditions: -40°C ± 50h

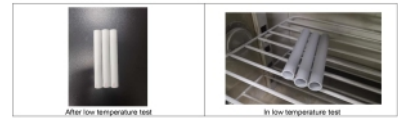
Items	Test Results	Acceptance Criteria	Evaluation
High temperature resistance	After the test, the sample has no embrittlement, deformation, discoloration, cracking, etc.	After the test, the sample shall not embrittlement, deformation, discoloration, cracking, etc.	Pass
Low temperature resistance	After the test, the sample has no embrittlement, deformation, discoloration, cracking, etc.		Pass

Test photos:



Note: CTI (Certificate of Test Item) Conditions are mentioned in standard (2) The results relate only to the items tested. (3) The test report shall not be reproduced except in full without the prior approval of the company. (4) Samples are tested as received.
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Report No. TC.20.07.002839
Date of Issue 07/10/2020



Test results are just for internal reference.

Changzhou Jinbaiao Railway Transportation Technical Service Co., Ltd.

Drafted by:

Lynn Lu

Lynn lu

Approved by:

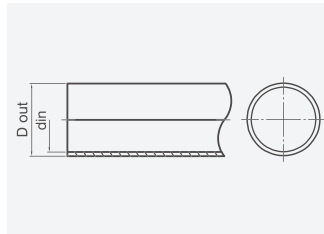
Shen Hua

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-End of Report-

Note: CTI (Certificate of Test Item) Conditions are mentioned in standard (2) The results relate only to the items tested. (3) The test report shall not be reproduced except in full without the prior approval of the company. (4) Samples are tested as received.
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HF Rigid Conduit (Heavy duty)




Standards:
 IEC61386-1, IEC61386-21
 IEC60754-2, ASTM E662
 ISO19700, UL94



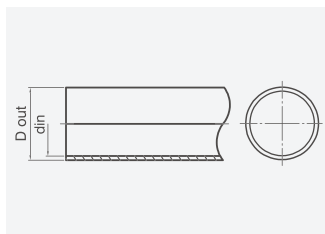
Properties

Resistance to compression	1250Nt/5cm
Resistance to impact	Heavy
Temperature range	-45°C to +150 °C
Resistance to bending	Rigid
Ageing resistance	UV stabilized
Electrical characteristics	With electrical insulated characteristics
IP ingress protection	Waterproof
Resistance to flame propagation	V0
Resistance to insulation	>1000MΩ , 2000V~no breakdown
Color selection	White/Black/Grey
Raw material	Halogen free thermoplastic

Products code	Type (mm)	Min OD	Max OD	Wall T(mm)	
CT-HFHDR20	∅20	19.7	20.0	2.3-2.6	25pcs/bar
CT-HFHDR25	∅25	24.7	25.0	2.5-2.8	18pcs/bar
CT-HFHDR32	∅32	31.7	32.0	2.7-3.0	12pcs/bar
CT-HFHDR40	∅40	39.7	40.0	3.1-3.4	12pcs/bar
CT-HFHDR50	∅50	49.7	50.0	3.4-3.9	5pcs/bar
CT-HFHDR63	∅63	62.7	63.0	3.9-4.5	
CT-HFHDR65	∅65	75.2	75.5	3.9-4.5	
CT-HFHDR80	∅80	88.7	89.1	4.6-5.3	
CT-HFHDR100	∅100	114.1	114.5	5.9-6.7	
CT-HFHDR125	∅125	140.0	140.4	7.2-8.1	
CT-HFHDR150	∅150	160.0	160.5	8.3-9.3	

Remarks: can be customized thickness and color

HF Rigid Conduit (Medium duty)



Standards:

IEC61386-1, IEC61386-21


IEC60754-2, ASTM E662

ISO19700, UI94



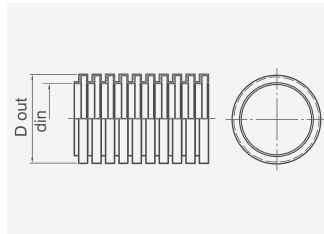
Properties

Resistance to compression	750Nt/5cm
Resistance to impact	Medium
Temperature range	-45°C to +150 °C
Resistance to bending	Rigid
Ageing resistance	UV stabilized
Electrical characteristics	With electrical insulated characteristics
IP ingress protection	Waterproof
Resistance to flame propagation	V0
Resistance to insulation	>1000MΩ , 2000V~no breakdown
Color selection	White/Black/Grey
Raw material	Halogen free thermoplastic

Products code	Type (mm)	Min OD	Max OD	Wall T(mm)	
CT-HFMDR20	∅20	19.7	20.0	1.8-2.1	25pcs/bar
CT-HFMDR25	∅25	24.7	25.0	1.8-2.1	18pcs/bar
CT-HFMDR32	∅32	31.7	32.0	2.1-2.4	12pcs/bar
CT-HFMDR40	∅40	39.7	40.0	2.4-2.7	12pcs/bar
CT-HFMDR50	∅50	49.7	50.0	2.8-3.1	5pcs/bar
CT-HFMDR63	∅63	62.7	63.0	3.0-3.5	
CT-HFMDR65	∅65	75.2	75.5	3.0-3.5	
CT-HFMDR80	∅80	88.7	89.1	3.5-4.1	
CT-HFMDR100	∅100	114.1	114.5	4.5-5.2	
CT-HFMDR125	∅125	140.0	140.4	5.5-6.3	
CT-HFMDR150	∅150	160.0	160.5	6.3-7.1	

Remarks: can be customized thickness and color

HF Corrugated Conduit (Heavy duty)





Standards:
 IEC61386-1, IEC61386-21
 IEC60754-2, ASTM E662,
 ISO19700, UL94



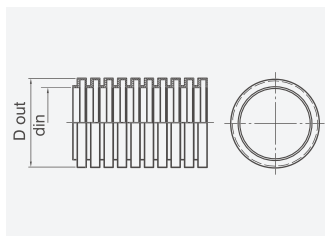
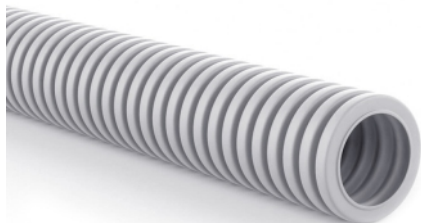
Properties

Resistance to compression	1250Nt/5cm
Resistance to impact	Heavy
Temperature range	-45°C to +150 °C
Resistance to bending	Flexible
Ageing resistance	UV stabilized
Electrical characteristics	With electrical insulated characteristics
IP ingress protection	Waterproof
Resistance to flame propagation	V0
Resistance to insulation	>1000MΩ , 2000V~no breakdown
Color selection	White/Black/Grey
Raw material	Halogen free thermoplastic

Products code	Type		Min ID	
CT-HFHDC20	∅20	20±0.3	12.7	50
CT-HFHDC25	∅25	25±0.4	16.5	25
CT-HFHDC32	∅32	32±0.4	22.0	25
CT-HFHDC40	∅40	40±0.4	28.3	20
CT-HFHDC50	∅50	50±0.5	36.0	20
CT-HFHDC63	∅63	63±0.6	46.0	10

Remarks: can be customized thickness and color

HF Corrugated Conduit (Medium duty)



Standards:

IEC61386-1, IEC61386-21



IEC60754-2, ASTM E662,

ISO19700, UL94



Properties

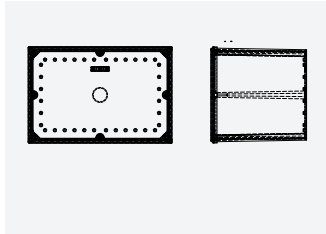
Resistance to compression	750Nt/5cm
Resistance to impact	Medium
Temperature range	-45°C to +150 °C
Resistance to bending	Flexible
Ageing resistance	UV stabilized
Electrical characteristics	With electrical insulated characteristics
IP ingress protection	Waterproof
Resistance to flame propagation	V0
Resistance to insulation	>1000MΩ , 2000V~no breakdown
Color selection	White/Black/Grey
Raw material	Halogen free thermoplastic

Products code	Type		Min ID	
CT-HFMDC20	∅20	20±0.3	14.1	50
CT-HFMDC25	∅25	25±0.4	18.3	25
CT-HFMDC32	∅32	32±0.4	24.3	25
CT-HFMDC40	∅40	40±0.4	31.2	20
CT-HFMDC50	∅50	50±0.5	39.6	20
CT-HFMDC63	∅63	63±0.5	50.6	10

Remarks: can be customized thickness and color



HF Waterproof adaptable box



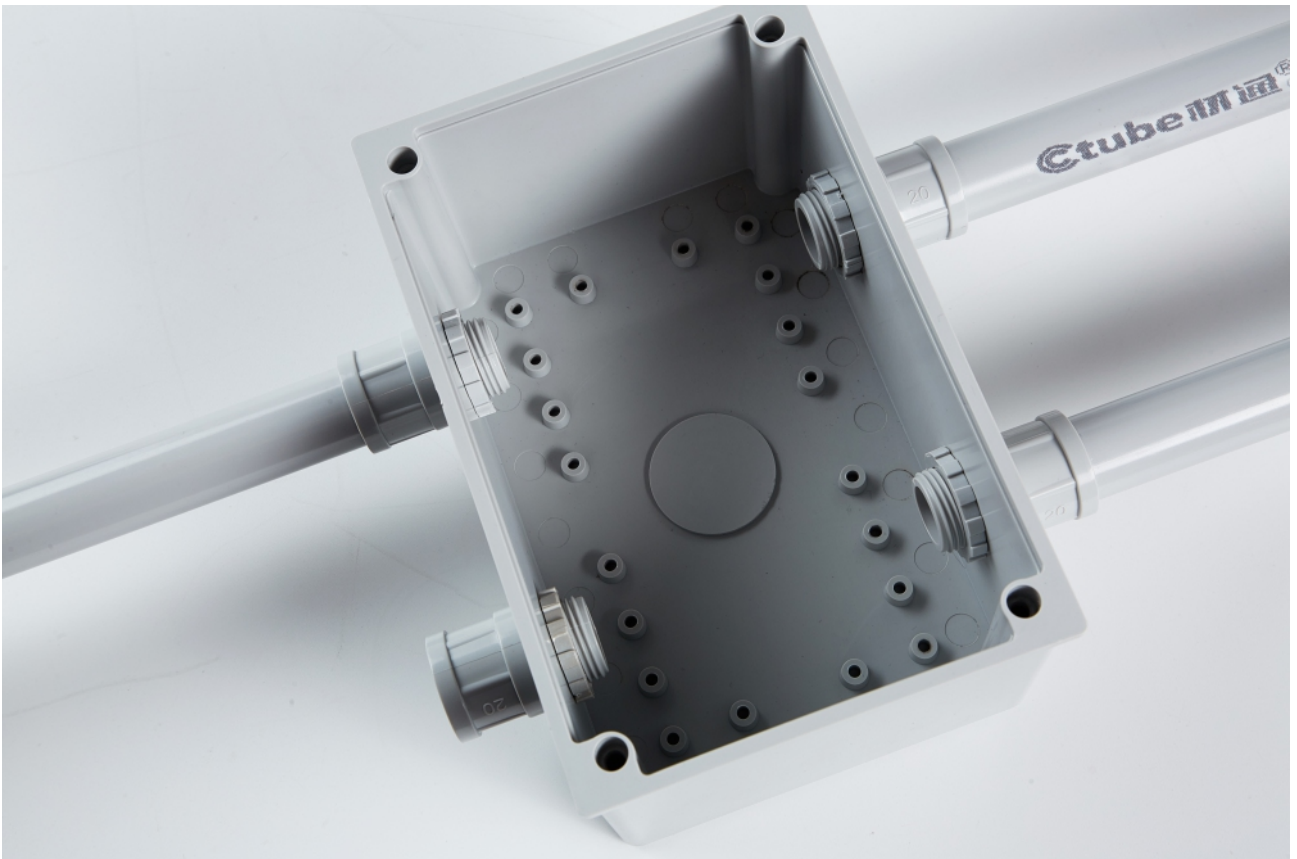
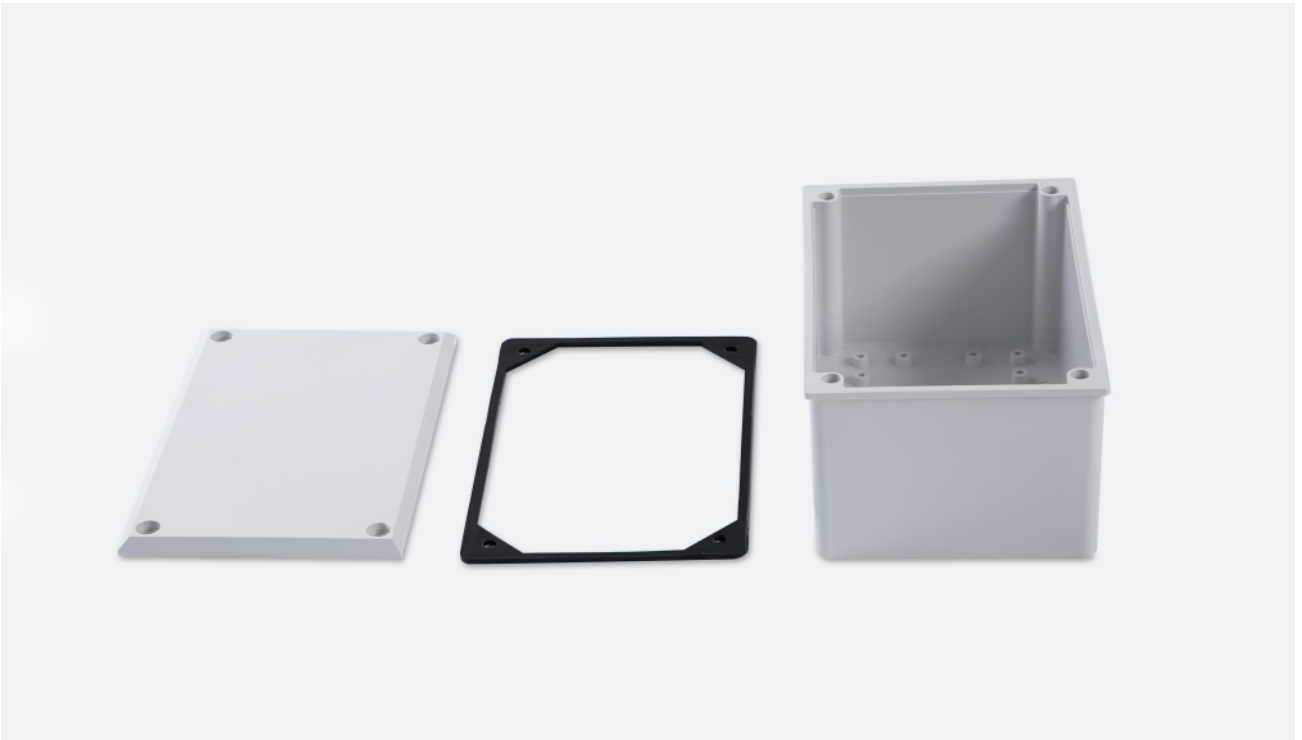
Standards:
IEC60754-2, IEC60670
IEC60529, ASTM E662
ISO19700, UL94



Properties

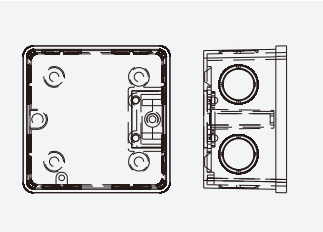
Ageing resistance	UV stabilized
Temperature range	-45°C to +150 °C
IP ingress protection	IP67
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Specification	Length(mm)	Width(mm)	Height(mm)	Package
CT-HFPJB85	85*85*62	85	85	62	96
CT-HFPJB108	108*108*50	108	108	50	63
CT-HFPJB108	108*108*76	108	108	76	45
CT-HFPJB163	163*108*81	163	108	81	42
CT-HFPJB211	211*108*81	211	108	81	18
CT-HFPJB200	200*300*152	200	300	152	4
CT-HFPJB300	200*300*200	200	300	200	4





HF 1299 Single Switch box 77



Standards:
IEC60754-2, IEC60670
ASTM E662, ISO19700, UL94



Properties

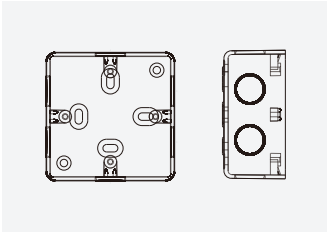
Ageing resistance	UV stablized
Temperature range	-45°C to +150 °C
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Specification	Length(mm)	Width(mm)	Height(mm)	Package
CT-HFS1299-77	77*77*43	77	77	43	200





HF CK Single Switch box



Standards:
IEC60754-2, IEC60670,
ASTM E662, ISO19700, UL94

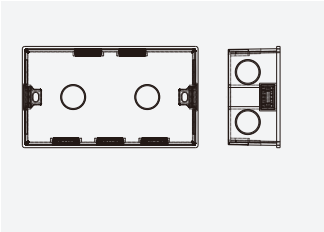


Properties

Ageing resistance	UV stabilized
Temperature range	-45°C to +150 °C
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Specification	Length(mm)	Width(mm)	Height(mm)	Package
CT-HFCKS	86*86*42	86	86	42	

HF 1299 Double Switch box



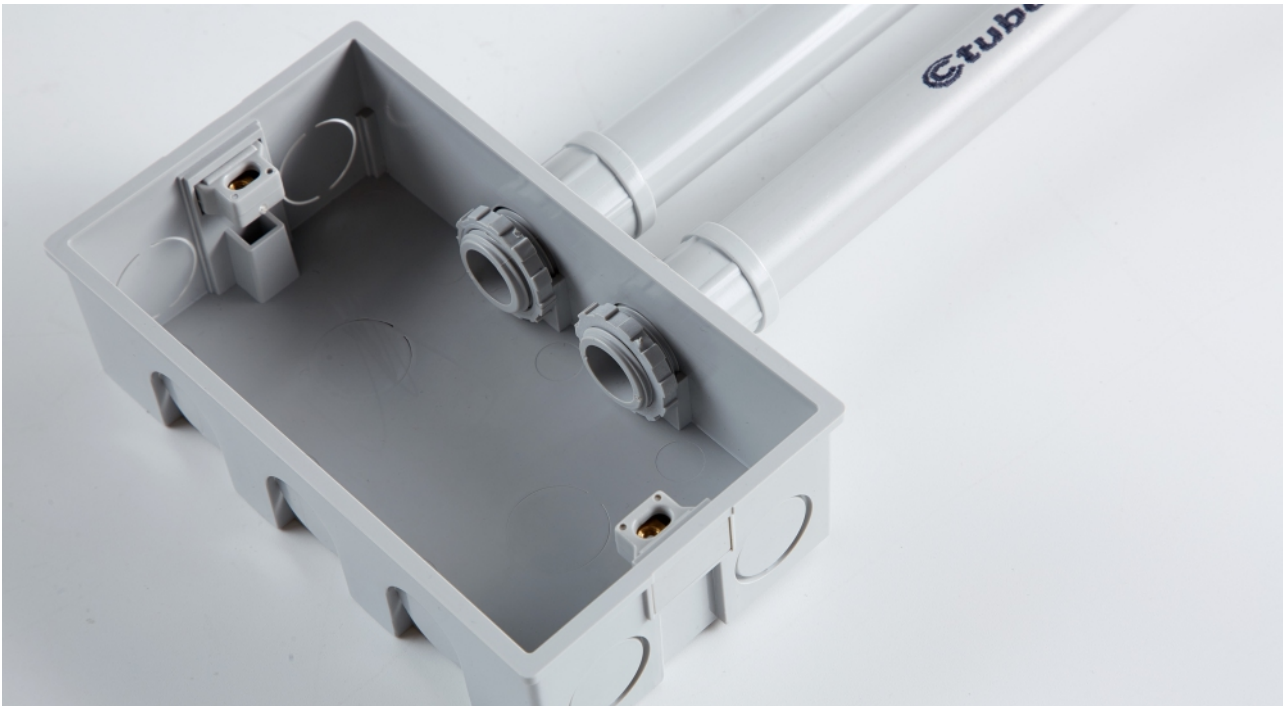
Standards:
IEC60754-2, IEC60670
ASTM E662, ISO19700, UL94



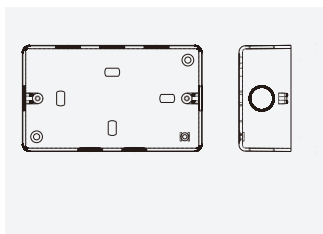
Properties

Ageing resistance	UV stablized
Temperature range	-45°C to +150 °C
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Specification	Length(mm)	Width(mm)	Height(mm)	Package
CT-HFD1299	86*143*42	86	143	42	120



HF CK Double Switch box



Standards:

IEC60754-2, IEC60670

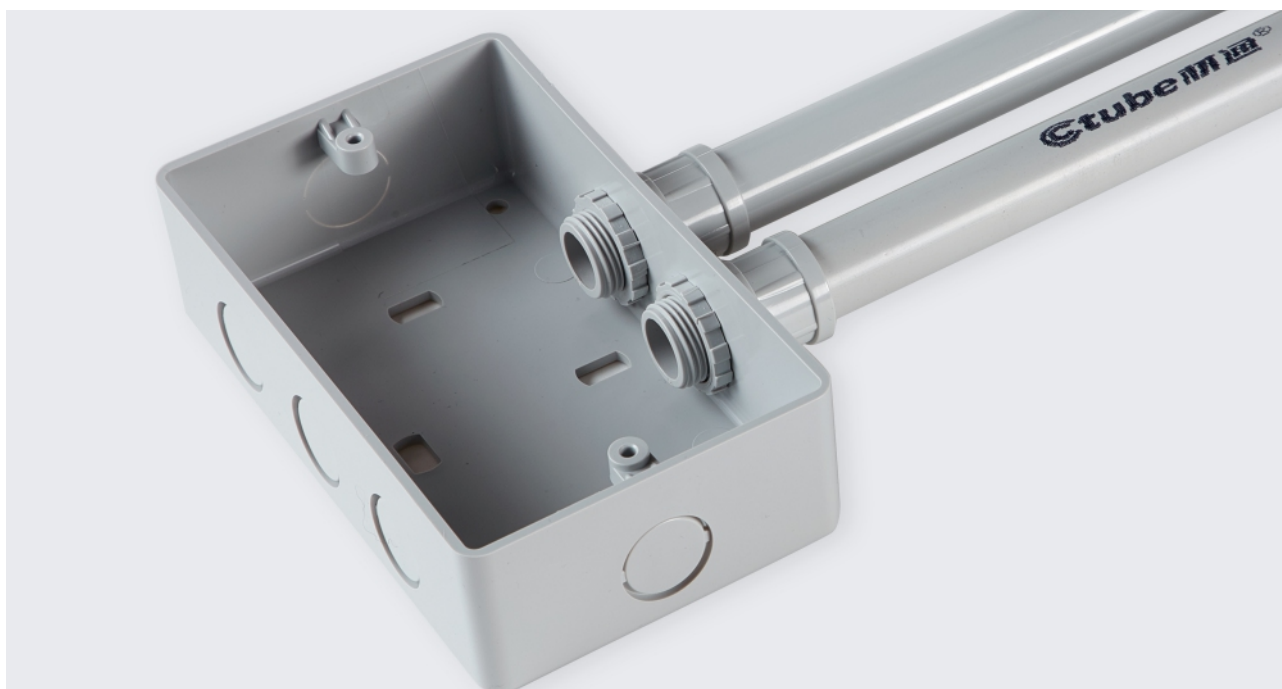
ASTM E662, ISO19700, UL94



Properties

Ageing resistance	UV stabilized
Temperature range	-45°C to +150 °C
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Specification	Length(mm)	Width(mm)	Height(mm)	Package
CT-HFCKD	86*146*42	86	146	42	120



HF Shallow junction box



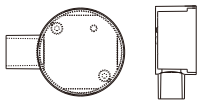
Standards:
 IEC61386-1, IEC61386-21
 IEC60754-2, ASTM E662
 ISO19700, UL94



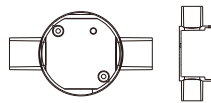
Properties

Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Ingress protection	Waterproof
Temperature range	-45°C to +150 °C
Electrical characteristics	with electrical insulated characteristics
Resistance to flame propagation	V0
Ageing resistance	UV stabilized
Conduit alignment	Yes
Cover attachment	Screwed

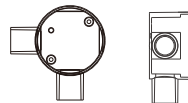




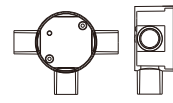
CT-SJB20/25/32-1



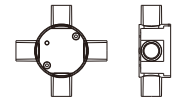
CT-SJB20/25/32-2




CT-SJB20/25/32-V



CT-SJB20/25/32-3



CT-SJB20/25/32-4

Products code	Type	Width(mm)	Height(mm)		Package
CT-SJB20-1	∅20	64	43	10	140
CT-SJB20-2	∅20	64	43	10	112
CT-SJB20-V	∅20	64	43	10	140
CT-SJB20-3	∅20	64	43	10	84
CT-SJB20-4	∅20	64	43	10	84
CT-SJB25-1	∅25	64	43	10	140
CT-SJB25-2	∅25	64	43	10	112
CT-SJB25-V	∅25	64	43	10	140
CT-SJB25-3	∅25	64	43	10	84
CT-SJB25-4	∅25	64	43	10	84
CT-SJB32-1	∅32	64	43	10	140
CT-SJB32-2	∅32	64	43	10	112
CT-SJB32-V	∅32	64	43	10	140
CT-SJB32-3	∅32	64	43	10	84
CT-SJB32-4	∅32	64	43	10	84



HF Deep junction box

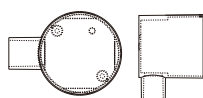
Standards:
 IEC61386-1, IEC61386-21
 IEC60754-2, ASTM E662
 ISO19700, UL94



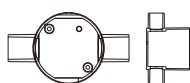
Properties

Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Ingress protection	Waterproof
Temperature range	-45°C to +150 °C
Electrical characteristics	with electrical insulated characteristics
Resistance to flame propagation	V0
Ageing resistance	UV stabilized
Conduit alignment	Yes
Cover attachment	Screwed

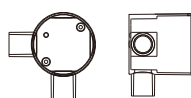




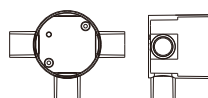
CT-DJB20/25/32-1



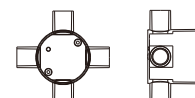
CT-DJB20/25/32-2



CT-DJB20/25/32-V



CT-DJB20/25/32-3

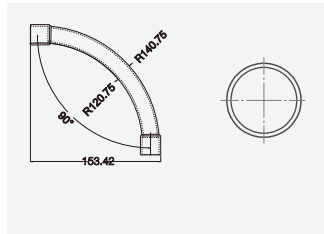


CT-DJB20/25/32-4



Products code	Type	Width(mm)	Height(mm)		Package
CT-DJB20-1	∅20	64	71	10	120
CT-DJB20-2	∅20	64	71	10	120
CT-DJB20-V	∅20	64	71	10	100
CT-DJB20-3	∅20	64	71	10	100
CT-DJB20-4	∅20	64	71	10	100
CT-DJB25-1	∅25	64	71	10	100
CT-DJB25-2	∅25	64	71	10	80
CT-DJB25-V	∅25	64	71	10	80
CT-DJB25-3	∅25	64	71	10	80
CT-DJB25-4	∅25	64	71	10	48
CT-DJB32-1	∅32	64	71	10	100
CT-DJB32-2	∅32	64	71	10	80
CT-DJB32-V	∅32	64	71	10	80
CT-DJB32-3	∅32	64	71	10	80
CT-DJB32-4	∅32	64	71	10	48

HF Bend



Standards:
 IEC61386-1, IEC61386-21
 IEC60754-2, ASTM E662
 ISO19700, UL94





Properties

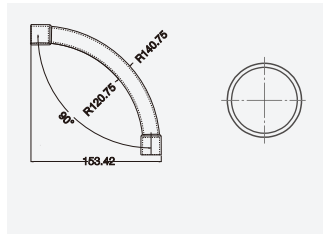
Resistance to compression	750Nt/5cm
Resistance to impact	6J
Ageing resistance	UV stabilized
Color selection	White/Black/Grey

General properties for Bends

Temperature range	-45°C to +150 °C
IP ingress protection	Waterproof
Raw material	Halogen free thermoplastic
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Type			Package
CT-HFMDB20	∅20	25.2	20.2	180
CT-HFMDB25	∅25	30.0	25.2	135
CT-HFMDB32	∅32	36.5	32.0	
CT-HFMDB40	∅40	46.4	40.2	35
CT-HFMDB50	∅50	57.2	50.2	28

HF 6D 90° Sweep Bend



Standards:
IEC61386-1, IEC61386-21
ASTM E662, ISO9001,
ISO14001, ISO19700, UL94

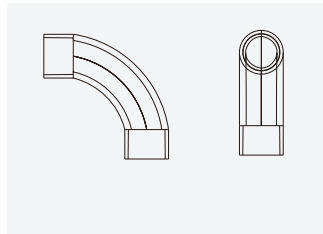


Properties

Ageing resistance	UV stabilized
Color selection	White/Black/Grey
Temperature range	-45°C to +150 °C
Raw material	Halogen free thermoplastic
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0
Low smoke to ASTM E662	Less than 1 at 60 seconds

Products code	Type			Package
CT-HF6DB20	∅20	25.2	20.2	1000
CT-HF6DB25	∅25	30.2	25.2	720

HF Solid Elbow





Standards:

IEC61386-1, IEC61386-21
 IEC60754-2, ASTM E662
 ISO19700, UL94



Properties

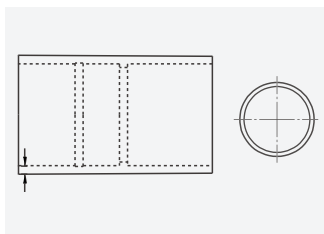
Ageing resistance	UV stabilized
Temperature range	-45°C to +150 °C
IP ingress protection	Waterproof
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Type	 OD	 ID	Package
CT-HFCE20	∅20	23.5	20.2	700
CT-HFCE25	∅25	28.5	25.2	400
CT-HFCE32	∅32	37.2	32.2	170





HF Couplers



Standards:

IEC61386-1, IEC61386-21



IEC60754-2, ASTM E662

ISO19700, UL94



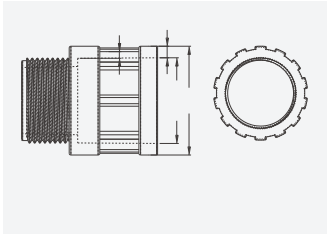
Properties

Ageing resistance	UV stabilized
Temperature range	-45°C to +150 °C
IP ingress protection	Waterproof
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Type			Package
CT-HF20C	∅20	23.5	20	1000
CT-HF25C	∅25	28.5	25	600
CT-HF32C	∅32	37	32	300
CT-HF40C	∅40	44.5	40	224
CT-HF50C	∅50	55.6	50	126



HF Male Adaptor





Standards:
 IEC61386-1, IEC61386-21
 IEC60754-2, ASTM E662
 ISO19700, UL94



Properties

Ageing resistance	UV stabilized
Temperature range	-45°C to +150 °C
IP ingress protection	Waterproof
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Type	 OD	 ID	Package
CT-HFA20	∅20	25.2	20.2	1000
CT-HFA25	∅25	32.2	25.2	720
CT-HFA32	∅32	39.2	32.2	360
CT-HFA40	∅40	47.2	40.2	210
CT-HFA50	∅50	57.2	50.2	120

HF Clip Adaptor with the ring





Standards:
IEC61386-1, IEC61386-21,
ISO9001, UL94, ASTM



Properties

Color selection	White/Black/Grey
Temperature range	-45°C to +150 °C
Electrical characteristics	with electrical insulated characteristics
Resistance to flame propagation	V0
Ageing resistance	UV stablized
IP ingress protection	Waterproof

Products code	Type			Package
CT-HFSCAG20	∅20	23.5	20.2	700
CT-HFSCAG25	∅25	28.5	25.2	400
CT-HFSCAG32	∅32	37.2	32.2	170

HF Female Double End Adaptor





Standards:

IEC61386-1, IEC61386-21
 ASTM E662, ISO9001
 ISO14001, ISO19700, UL94

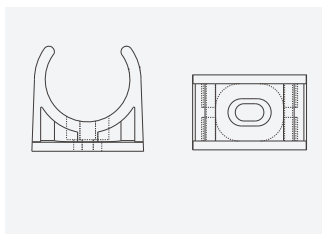


Properties

Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Temperature range	-45°C to +150 °C
Electrical characteristics	with electrical insulated characteristics
Resistance to flame propagation	V0
Ageing resistance	UV stabilized
Conduit alignment	Yes
Cover attachment	Screwed

Products code	Type			Package
CT-HFFDA20	∅20	25.2	20.2	1000
CT-HFFDA25	∅25	32.2	25.2	720

HF Clips



Standards:

IEC60754-2, IEC61386-25

ASTM E662, ISO19700, UL94



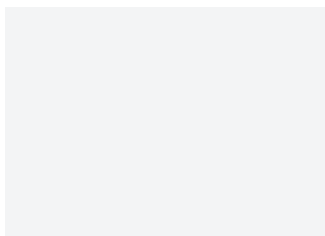
Properties

Ageing resistance	UV stabilized
Temperature range	-45°C to +150 °C
IP ingress protection	Waterproof
Raw material	Halogen free thermoplastic
Color selection	White/Black/Grey
Electrical characteristics	With electrical insulated characteristics
Resistance to flame propagation	V0

Products code	Type	Dimensions (mm)		Package
		OD	ID	
CT-HFC20	∅20	23.5	20	4000
CT-HFC25	∅25	28.5	25	2112
CT-HFC32	∅32	39	32	1600
CT-HFC40	∅40	47	40	840
CT-HFC50	∅50	58	50	432



Conduit Full Saddle



Properties

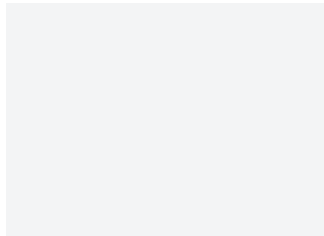
Raw material Galvanized Steel

Thickness 1.1-1.2mm

Products code	Type	Package
CT-20FS	Ø 20	
CT-25FS	Ø 25	
CT-32FS	Ø 32	
CT-40FS	Ø 40	
CT-50FS	Ø 50	



Half Saddle with nail



Properties

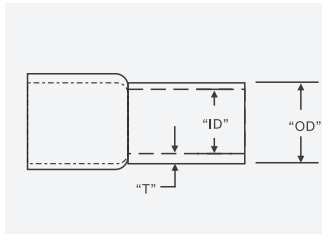
Raw material	Galvanized Steel
Thickness	1.1-1.2mm

Products code	Type	Package
CT-20FS	ø 20	
CT-25FS	ø 25	
CT-32FS	ø 32	
CT-40FS	ø 40	
CT-50FS	ø 50	



Schedule 40 and Schedule 80 PVC Conduit and Fittings,
Type EB and Type A PVC Conduit,
DB, 100, 120 PVC Utilities Duct,
Electrical Nonmetallic Tubing and Fittings.

Schedule 40 Rigid HF Conduit



Standards:
 UL651, IEC61386-1
 IEC61386-21, ISO9001
 UL94, ASTM



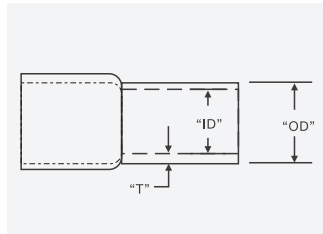
Properties

- ◆ No Halogens, safer to use in confined spaces and public buildings.
 - ◆ Very low smoke and low toxicity generation.
 - ◆ Vo fire resistant, self extinguishing, no burning drips.
 - ◆ Excellent temperature range, from -45°C to +150 °C.
 - ◆ Sunlight resistant.
 - ◆ Impact resistant, very durable for use.
 - ◆ Smooth interior and outside.
 - ◆ Standard lengths 10 feet and 20 feet with a belled end or not.
- Other lengths can be customized for specific applications.

Item No.	Size	OD		Min Average ID		Min T	
		Average		Schedule 40		Schedule 40	
		Inches	mm	Inches	mm	Inches	mm
CT-SCH40ALSZH	1/2	0.840±0.004	21.34±0.10	0.578	14.68	0.109	2.77
CT-SCH40BLSZH	3/4	1.050±0.004	26.67±0.10	0.780	19.81	0.113	2.87
CT-SCH40CLSZH	1	1.315±0.005	33.40±0.13	1.004	25.50	0.133	3.38
CT-SCH40DLSZH	1-1/4	1.660±0.005	42.16±0.13	1.335	33.90	0.140	3.56
CT-SCH40ELSZH	1-1/2	1.900±0.006	48.26±0.15	1.564	39.72	0.145	3.68
CT-SCH40FLSZH	2	2.375±0.006	60.32±0.15	2.021	51.33	0.154	3.91
CT-SCH40GLSZH	2-1/2	2.875±0.007	73.02±0.18	2.414	61.31	0.203	5.16
CT-SCH40HLSZH	3	3.500±0.008	88.90±0.20	3.008	76.40	0.216	5.49
CT-SCH40ILSZH	3-1/2	4.000±0.008	101.60±0.20	3.486	88.54	0.226	5.74
CT-SCH40JLSZH	4	4.500±0.009	114.30±0.23	3.961	100.60	0.237	6.02
CT-SCH40KLSZH	5	5.563±0.010	141.30±0.25	4.975	126.36	0.258	6.55
CT-SCH40LLSZH	6	6.625±0.011	168.28±0.28	5.986	152.04	0.280	7.11
CT-SCH40MLSZH	8	8.625±0.011	219.07±0.28	7.853	199.47	0.322	8.18



Schedule 80 Rigid HF Conduit



Standards:

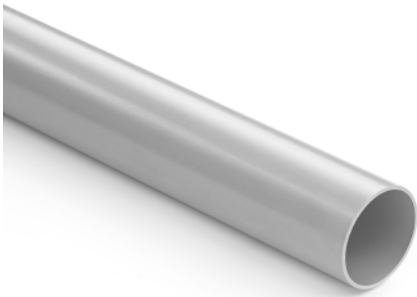
UL651, IEC61386-1
IEC61386-21, ISO9001
UL94, ASTM



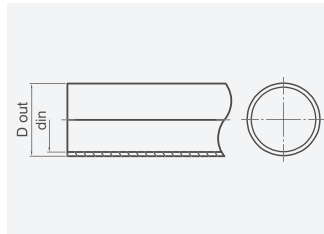
Properties

- ◆ No Halogens, safer to use in confined spaces and public buildings.
 - ◆ Very low smoke and low toxicity generation.
 - ◆ Vo fire resistant, self extinguishing, no burning drips.
 - ◆ Excellent temperature range, from -45°C to +150 °C.
 - ◆ Sunlight resistant.
 - ◆ Impact resistant, very durable for use.
 - ◆ Smooth interior and outside.
 - ◆ Standard lengths 10 feet and 20 feet with a belled end or not.
- Other lengths can be customized for specific applications.

Item No.	Size	OD		Min Average ID		Min T	
		Average		Schedule 40		Schedule 40	
		Inches	mm	Inches	mm	Inches	mm
CT-SCH80ALSZH	1/2	0.840±0.004	21.34±0.10	0.502	12.75	0.147	3.73
CT-SCH80BLSZH	3/4	1.050±0.004	26.67±0.10	0.698	17.72	0.154	3.91
CT-SCH80CLSZH	1	1.315±0.005	33.40±0.13	0.910	23.11	0.179	4.55
CT-SCH80DLSZH	1-1/4	1.660±0.005	42.16±0.13	1.227	31.16	0.191	4.85
CT-SCH80ELSZH	1-1/2	1.900±0.006	48.26±0.15	1.446	36.72	0.200	5.08
CT-SCH80FLSZH	2	2.375±0.006	60.32±0.15	1.881	47.77	0.218	5.54
CT-SCH80GLSZH	2-1/2	2.875±0.007	73.02±0.18	2.250	57.15	0.276	7.01
CT-SCH80HLSZH	3	3.500±0.008	88.90±0.20	2.820	71.62	0.300	7.62
CT-SCH80ILSZH	3-1/2	4.000±0.008	101.60±0.20	3.280	83.31	0.318	8.08
CT-SCH80JLSZH	4	4.500±0.009	114.30±0.23	3.737	94.91	0.337	8.56
CT-SCH80KLSZH	5	5.563±0.010	141.30±0.25	4.713	119.71	0.375	9.53
CT-SCH80LLSZH	6	6.625±0.011	168.28±0.28	5.646	143.41	0.432	10.97
CT-SCH80MLSZH	8	8.625±0.011	219.07±0.28	7.513	190.83	0.500	12.70



TYPE A LSZH Rigid Conduit



Standards:
 UL651, IEC61386-1
 IEC61386-21, ISO9001
 UL94, ASTM



Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.

- ◆ Very low smoke and low toxicity generation.

- ◆ Comply with UL651 Standard.

- ◆ Excellent temperature range, from -45°C to +150 °C.

- ◆ Impact resistant.

- ◆ Self extinguishing, fire retardant.

- ◆ Smooth interior and outside.

- ◆ Suitable for underground or above ground applications.

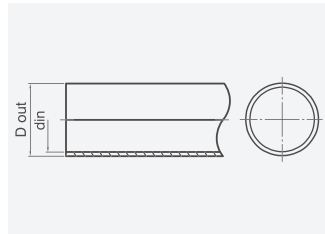
- ◆ Standard lengths 10/ 20ft with a belled end or not.

- ◆ Other lengths can be customized for specific applications.

Item No.	Size	OD		Wall Thickness			
		Average		Max.		Min.	
		Inches	mm	Inches	mm	Inches	mm
CT-TYPEAALSZH	1/2	0.840 ±0.004	21.34 ±0.10	0.080	2.030	0.060	1.520
CT-TYPEABLSZH	3/4	1.050 ±0.004	26.67 ±0.10	0.080	2.030	0.060	1.520
CT-TYPEACLSZH	1	1.315 ±0.005	33.40±0.13	0.080	2.030	0.060	1.520
CT-TYPEADLSZH	1-1/4	1.660 ±0.005	42.16 ±0.13	0.090	2.290	0.070	1.780
CT-TYPEAELSZH	1-1/2	1.900 ±0.006	48.26 ±0.15	0.100	2.540	0.080	2.030
CT-TYPEAFLSZH	2	2.375 ±0.006	60.32 ±0.15	0.120	3.050	0.100	2.540
CT-TYPEAGLSZH	2-1/2	2.875 ±0.007	73.02 ±0.18	0.130	3.300	0.110	2.800
CT-TYPEAHLSZH	3	3.500 ±0.008	88.90 ±0.20	0.145	3.680	0.125	3.180
CT-TYPEAILSZH	3-1/2	4.000±0.008	101.60 ±0.20	0.165	4.200	0.145	3.680
CT-TYPEAJLSZH	4	4.500±0.009	114.30 ±0.23	0.170	4.320	0.150	3.800
CT-TYPEAKLSZH	5	5.563±0.010	141.30 ±0.25	0.190	4.826	0.170	4.318
CT-TYPEALLSZH	6	6.625±0.011	168.28 ±0.28	0.210	5.334	0.190	4.826



TYPE EB LSZH Rigid Conduit



Standards:
 UL651, IEC61386-1
 IEC61386-21, ISO9001
 UL94, ASTM



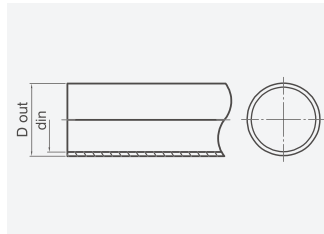
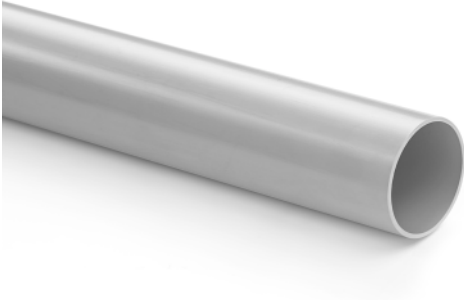
Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Comply with UL651 Standard.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Impact resistant.
- ◆ Self extinguishing, fire retardant.
- ◆ Smooth interior and outside.
- ◆ Standard lengths 10/ 20ft with a belled end or not.

Other lengths can be customized for specific applications.

Item No.	Size	OD		Wall Thickness			
		Average		Max.		Min.	
		Inches	mm	Inches	mm	Inches	mm
CT-TYPEEBALSZH	2	2.375±0.006	60.32±0.15	0.094	2.39	0.060	1.52
CT-TYPEEBBLSZH	3	3.500±0.008	88.90±0.20	0.109	2.77	0.061	1.55
CT-TYPEEBCLSZH	3-1/2	4.000±0.008	101.60±0.20	0.124	3.15	0.072	1.83
CT-TYPEEBDLSZH	4	4.500±0.009	114.30±0.23	0.129	3.28	0.082	2.08
CT-TYPEEBELSZH	5	5.563±0.010	141.30±0.25	0.144	3.66	0.103	2.62
CT-TYPEEBFLSZH	6	6.625±0.011	168.28±0.28	0.164	4.17	0.125	3.18

DB60 LSZH Utilities Duct



Standards:
 UL651, IEC61386-1
 IEC61386-21, ISO9001
 UL94, ASTM

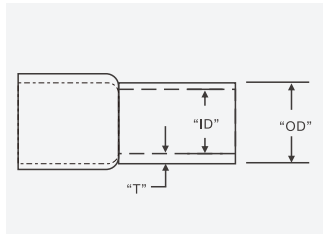


Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Comply with NEMA TC 6&8, ASTM F-512 Standard.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Impact resistant.
- ◆ Self extinguishing, fire resistant.
- ◆ Smooth interior and outside.
- ◆ Produced in standard 10/20ft with a belled end.
- ◆ Suitable for direct burial without encasement in concrete.

Item No.	Size	Average OD	Min Thickness	Length
		Inches	Inches	
CT-LSZHDB6001	2	2.375 ±0.006	0.060	10ft/20ft
CT-LSZHDB6002	3	3.500 ±0.008	0.092	10ft/20ft
CT-LSZHDB6003	4	4.500±0.009	0.121	10ft/20ft
CT-LSZHDB6004	5	5.563±0.010	0.152	10ft/20ft
CT-LSZHDB6005	6	6.625±0.011	0.182	10ft/20ft

DB100 LSZH Utilities Duct



Standards:
 UL651, IEC61386-1
 IEC61386-21, ISO9001
 UL94, ASTM



Properties

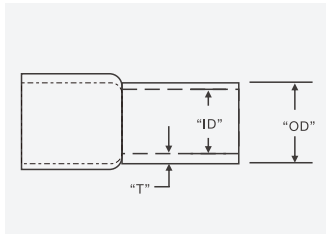
- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Comply with UL651 Standard.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Impact resistant.
- ◆ Self extinguishing, fire retardant.
- ◆ Smooth interior and outside.
- ◆ Standard lengths 10/ 20ft with a belled end or not.

Other lengths can be customized for specific applications.

Item No.	Size	Average OD	Min Thickness	Length
		Inches	Inches	
CT-LSZHDB10001	3	3.500 ±0.008	0.112	10ft/20ft
CT-LSZHDB10002	3-1/2	4.000±0.008	0.128	10ft/20ft
CT-LSZHDB10003	4	4.500±0.009	0.145	10ft/20ft
CT-LSZHDB10004	5	5.563±0.010	0.179	10ft/20ft
CT-LSZHDB10005	6	6.625±0.011	0.213	10ft/20ft



DB120 LSZH Utilities Duct



Standards:
 UL651, IEC61386-1
 IEC61386-21, ISO9001
 UL94, ASTM



Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Comply with NEMA TC 6&8, ASTM F-512 Standard.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Impact resistant.
- ◆ Self extinguishing, fire resistant.
- ◆ Smooth interior and outside.
- ◆ Produced in standard 10/20ft with a belled end.
- ◆ Suitable for direct burial without encasement in concrete.

Item No.	Size	Average OD (inch)	Thickness 01 (inch)	Thickness 02 (inch)	Length
CT-LSZHDB120RCA	1	1.315±0.005	0.060	0.060	10ft/20ft
CT-LSZHDB120RCB	1-1/2	1.900±0.006	0.060	0.065	10ft/20ft
CT-LSZHDB120RCC	2	2.375±0.006	0.077	0.083	10ft/20ft
CT-LSZHDB120RCD	3	3.500±0.008	0.118	0.127	10ft/20ft
CT-LSZHDB120RCE	3-1/2	4.000±0.008	0.136	0.147	10ft/20ft
CT-LSZHDB120RCF	4	4.500±0.009	0.154	0.166	10ft/20ft
CT-LSZHDB120RCG	5	5.563±0.010	0.191	0.205	10ft/20ft
CT-LSZHDB120RCH	6	6.625±0.011	0.227	0.244	10ft/20ft



Ctube  CONFORMS TO UL651
SCH-40 RIGID PVC CONDUIT
SUNLIGHT RESISTANT
202311/09
E523819 2' (53)

Ctube  CONFORMS TO UL651
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Ctube  CONFORMS TO UL651
SCH-40 RIGID PVC CONDUIT
SUNLIGHT RESISTANT
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E523819 2' (53)

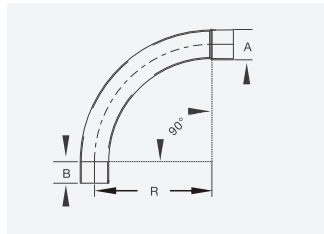
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SCH-40 RIGID PVC CONDUIT
SUNLIGHT RESISTANT
202311/09
E523819 2' (53)

Ctube  CONFORMS TO UL651
SCH-40 RIGID PVC CONDUIT
SUNLIGHT RESISTANT
202311/09
E523819 2' (53)

Ctube  CONFORMS TO UL651
SCH-40 RIGID PVC CONDUIT
SUNLIGHT RESISTANT
202311/09
E523819 2' (53)



HF Sch40 & Sch80 90° Standard Elbows - Bell End



Standards:

UL651, IEC61386-1
IEC61386-21, ISO9001
UL94, ASTM

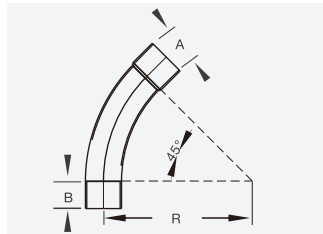


Properties

- ◆ Bell end standard radius elbow is used to change the direction of a conduit run by 90 degrees.
- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Sunlight resistant.
- ◆ Comply with UL651 standard.
- ◆ For Standard Radius.

Item No.	Size	Min.Wall (in)		A (in) Average	B (in) Min.	R (in)
		Sch40	Sch80			
CT-HFSWB90A	1/2	0.109	0.147	0.84	1.5	4
CT-HFSWB90B	3/4	0.113	0.154	1.05	1.5	4.5
CT-HFSWB90C	1	0.133	0.179	1.315	1.875	5.75
CT-HFSWB90D	1-1/4	0.140	0.191	1.66	2	7.25
CT-HFSWB90E	1-1/2	0.145	0.200	1.9	2	8.25
CT-HFSWB90F	2	0.154	0.218	2.375	2	9.5
CT-HFSWB90G	2-1/2	0.203	0.276	2.875	3	10.5
CT-HFSWB90H	3	0.216	0.300	3.5	3.125	13
CT-HFSWB90I	3-1/2	0.226	0.318	4	3.25	15
CT-HFSWB90J	4	0.237	0.337	4.5	3.375	16
CT-HFSWB90K	5	0.258	0.375	5.563	3.625	24
CT-HFSWB90L	6	0.280	0.432	6.625	3.75	30
CT-HFSWB90M	8	0.322	0.500	8.625	6.5	35.5

HF Sch40 & Sch80 45° Standard Elbows - Bell End



Standards:
 UL651, IEC61386-1
 IEC61386-21, ISO9001
 UL94, ASTM



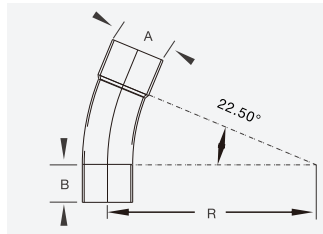
Properties

- ◆ Bell end standard radius elbow is used to change the direction of a conduit run by 45 degrees.
- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Sunlight resistant.
- ◆ Comply with UL651 standard.
- ◆ For Standard Radius.

Item No.	Size	Min.Wall (in)		A (in) Average	B (in) Min.	R (in)
		Sch40	Sch80			
CT-HFSWB45A	1/2	0.109	0.147	0.84	1.5	4
CT-HFSWB45B	3/4	0.113	0.154	1.05	1.5	4.5
CT-HFSWB45C	1	0.133	0.179	1.315	1.875	5.75
CT-HFSWB45D	1-1/4	0.140	0.191	1.66	2	7.25
CT-HFSWB45E	1-1/2	0.145	0.200	1.9	2	8.25
CT-HFSWB45F	2	0.154	0.218	2.375	2	9.5
CT-HFSWB45G	2-1/2	0.203	0.276	2.875	3	10.5
CT-HFSWB45H	3	0.216	0.300	3.5	3.125	13
CT-HFSWB45I	3-1/2	0.226	0.318	4	3.25	15
CT-HFSWB45J	4	0.237	0.337	4.5	3.375	16
CT-HFSWB45K	5	0.258	0.375	5.563	3.625	24
CT-HFSWB45L	6	0.280	0.432	6.625	3.75	30
CT-HFSWB45M	8	0.322	0.500	8.625	6.5	35.5



HF Sch40 & Sch80 22.5° Standard Elbows - Bell End



Standards:
 UL651, IEC61386-1
 IEC61386-21, ISO9001
 UL94, ASTM

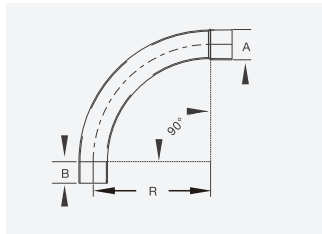


Properties

- ◆ Bell end standard radius elbow is used to change the direction of a conduit run by 90 degrees.
- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Sunlight resistant.
- ◆ Comply with UL651 standard.
- ◆ For Standard Radius.

Item No.	Size	Min.Wall (in)		A (in) Average	B (in) Min.	R (in)
		Sch40	Sch80			
CT-HFSWB22.5A	1/2	0.109	0.147	0.84	1.5	4
CT-HFSWB22.5B	3/4	0.113	0.154	1.05	1.5	4.5
CT-HFSWB22.5C	1	0.133	0.179	1.315	1.875	5.75
CT-HFSWB22.5D	1-1/4	0.140	0.191	1.66	2	7.25
CT-HFSWB22.5E	1-1/2	0.145	0.200	1.9	2	8.25
CT-HFSWB22.5F	2	0.154	0.218	2.375	2	9.5
CT-HFSWB22.5G	2-1/2	0.203	0.276	2.875	3	10.5
CT-HFSWB22.5H	3	0.216	0.300	3.5	3.125	13
CT-HFSWB22.5I	3-1/2	0.226	0.318	4	3.25	15
CT-HFSWB22.5J	4	0.237	0.337	4.5	3.375	16
CT-HFSWB22.5K	5	0.258	0.375	5.563	3.625	24
CT-HFSWB22.5L	6	0.280	0.432	6.625	3.75	30
CT-HFSWB22.5M	8	0.322	0.500	8.625	6.5	35.5

HF Sch40 & Sch80 90° Special Sweep Elbows - Bell End



Standards:
 UL651, IEC61386-1
 IEC61386-21, ISO9001
 UL94, ASTM

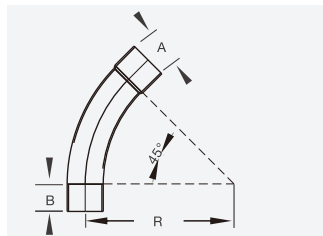


Properties

- ◆ Bell end standard radius elbow is used to change the direction of a conduit run by 90 degrees.
- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Sunlight resistant.
- ◆ Comply with UL651 standard.
- ◆ For Standard Radius.

Item No.	Size	Min.Wall (in)		A (in) Average	B (in) Min.	Radius	
		Sch40	Sch80			24"	36"
CT-HFSWS90C	1	0.133	0.179	1.315	1.875	✓	✓
CT-HFSWS90D	1-1/4	0.140	0.191	1.660	2.000	✓	✓
CT-HFSWS90E	1-1/2	0.145	0.200	1.900	2.000	✓	✓
CT-HFSWS90F	2	0.154	0.218	2.375	2.000	✓	✓
CT-HFSWS90G	2-1/2	0.203	0.276	2.875	3.000	✓	✓
CT-HFSWS90H	3	0.216	0.300	3.500	3.125	✓	✓
CT-HFSWS90I	3-1/2	0.226	0.318	4.000	3.250	✓	✓
CT-HFSWS90J	4	0.237	0.337	4.500	3.375	✓	✓
CT-HFSWS90K	5	0.258	0.375	5.563	3.625		✓
CT-HFSWS90L	6	0.280	0.432	6.625	3.750		✓
CT-HFSWS90M	8	0.322	0.500	8.625	6.500		✓

HF Sch40 & Sch80 45° Special Sweep Elbows - Bell End



Standards:
 UL651, IEC61386-1
 IEC61386-21, ISO9001
 UL94, ASTM

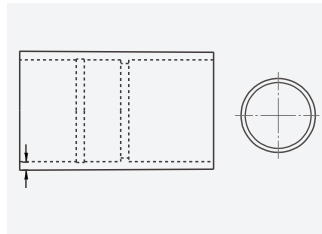


Properties

- ◆ Bell end standard radius elbow is used to change the direction of a conduit run by 45 degrees.
- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Sunlight resistant.
- ◆ Comply with UL651 standard.
- ◆ For Standard Radius.

Item No.	Size	Min.Wall (in)		A (in) Average	B (in) Min.	Radius	
		Sch40	Sch80			24"	36"
CT-HFSWS45C	1	0.133	0.179	1.315	1.875	✓	✓
CT-HFSWS45D	1-1/4	0.140	0.191	1.660	2.000	✓	✓
CT-HFSWS45E	1-1/2	0.145	0.200	1.900	2.000	✓	✓
CT-HFSWS45F	2	0.154	0.218	2.375	2.000	✓	✓
CT-HFSWS45G	2-1/2	0.203	0.276	2.875	3.000	✓	✓
CT-HFSWS45H	3	0.216	0.300	3.500	3.125	✓	✓
CT-HFSWS45I	3-1/2	0.226	0.318	4.000	3.250	✓	✓
CT-HFSWS45J	4	0.237	0.337	4.500	3.375	✓	✓
CT-HFSWS45K	5	0.258	0.375	5.563	3.625		✓
CT-HFSWS45L	6	0.280	0.432	6.625	3.750		✓
CT-HFSWS45M	8	0.322	0.500	8.625	6.500		✓

LSZH Couplers



Standards:
 UL651, IEC61386-1,
 IEC61386-21, ISO9001,
 UL94, ASTM

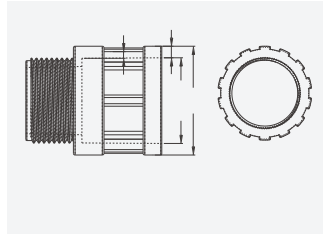


Properties

- ◆ Center stop coupling used to join lengths of conduit pipe together with two solvent weld socket ends.
- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Sunlight resistant.
- ◆ Comply with UL651 standard.

Products code	Type	w (in)	L (in)	ID (in)
CT-SCALSZH	1/2	1.066	1.500	0.852
CT-SCBLSZH	3/4	1.307	1.563	1.064
CT-SCCLSZH	1	1.602	2.000	1.330
CT-SCDLSZH	1-1/4	2.020	2.165	1.677
CT-SCELSZH	1-1/2	2.252	2.357	1.918
CT-SCFLSZH	2	2.744	2.600	2.393
CT-SCGLSZH	2-1/2	3.351	3.500	2.890
CT-SCHLSZH	3	4.035	3.875	3.515
CT-SCILSZH	3-1/2	4.539	4.000	4.015
CT-SCJLSZH	4	5.039	4.188	4.515
CT-SCKLSZH	5	6.169	5.375	5.593
CT-SCLLSZH	6	7.247	6.375	6.669
CT-SCMLSZH	8	9.315	10.500	8.685

LSZH Terminal Male Adapter



Standards:
 UL651, IEC61386-1,
 IEC61386-21, ISO9001,
 UL94, ASTM

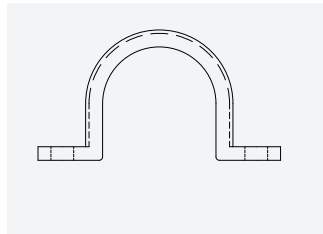


Properties

- ◆ For use with schedule40&sch80, Type EB application.
- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Comply with UL651 standard.

Products code	Type	W(in)	L (in)
CT-TMAALSZH	1/2	1.069	1.449
CT-TMABLSZH	3/4	1.302	1.527
CT-TMACLSZH	1	1.587	1.889
CT-TMACLSZH	1-1/4	2.020	1.967
CT-TMACLSZH	1-1/2	2.258	2.006
CT-TMACLSZH	2	2.744	2.170
CT-TMACLSZH	2-1/2	3.354	2.408
CT-TMACLSZH	3	4.035	2.669
CT-TMACLSZH	4	5.039	3.193

LSZH Pipe Straps



Standards:
 UL651, IEC61386-1,
 IEC61386-21, ISO9001,
 UL94, ASTM

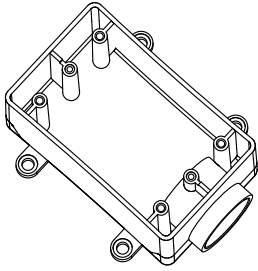


Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Non-conductive.
- ◆ For use with Sch40 & Sch80 conduit.

Products code	Knockouts	W(in)	W (in)
CT-PSALSZH	1/2	0.500	2.188
CT-PSBLSZH	3/4	0.500	2.500
CT-PSCLSZH	1	0.563	2.813
CT-PSDLSZH	1-1/4	0.622	3.125
CT-PSELSZH	1-1/2	0.622	3.374
CT-PSFLSZH	2	0.687	4.001
CT-PSGLSZH	2-1/2	1.000	4.563

LSZH Single Gang Outlet Box 1 Way



Standards:

UL651, IEC61386-1,
IEC61386-21, ISO9001,
UL94, ASTM

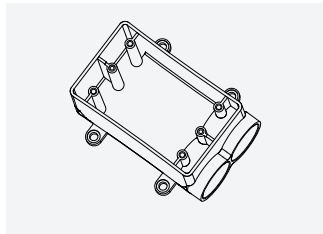
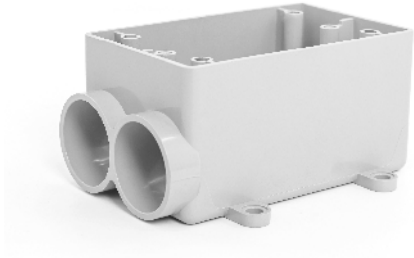


Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Non-conductive.
- ◆ For use with Sch40 & Sch80 conduit.
- ◆ Ideal for use in concrete.

Products code	Type	L(in)	H (in)
CT-HFSGO1A	1/2	4.951	2.375
CT-HFSGO1B	3/4	4.951	2.375
CT-HFSGO1C	1	4.951	2.375

LSZH Single Gang Outlet Box 2 Way



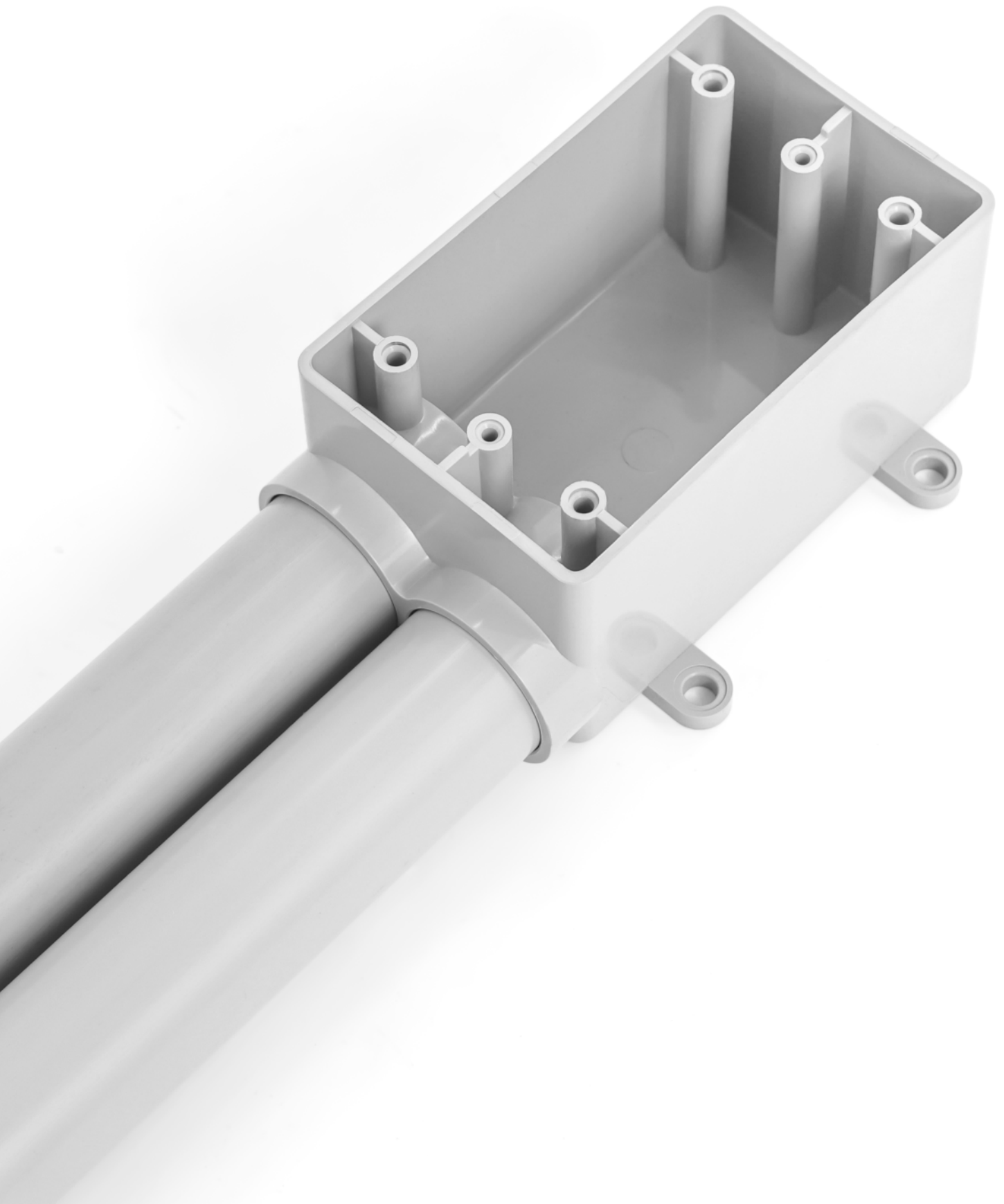
Standards:
 UL651, IEC61386-1,
 IEC61386-21, ISO9001,
 UL94, ASTM



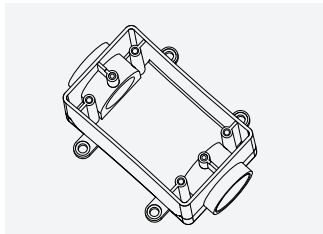
Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Non-conductive.
- ◆ For use with Sch40 & Sch80 conduit.
- ◆ Ideal for use in concrete.

Products code	Type	L(in)	H (in)
CT-HFSGO2A	1/2	4.951	2.375
CT-HFSGO2B	3/4	4.951	2.375
CT-HFSGO2C	1	4.951	2.375



LSZH Single Gang Outlet Box 2 Straight Way



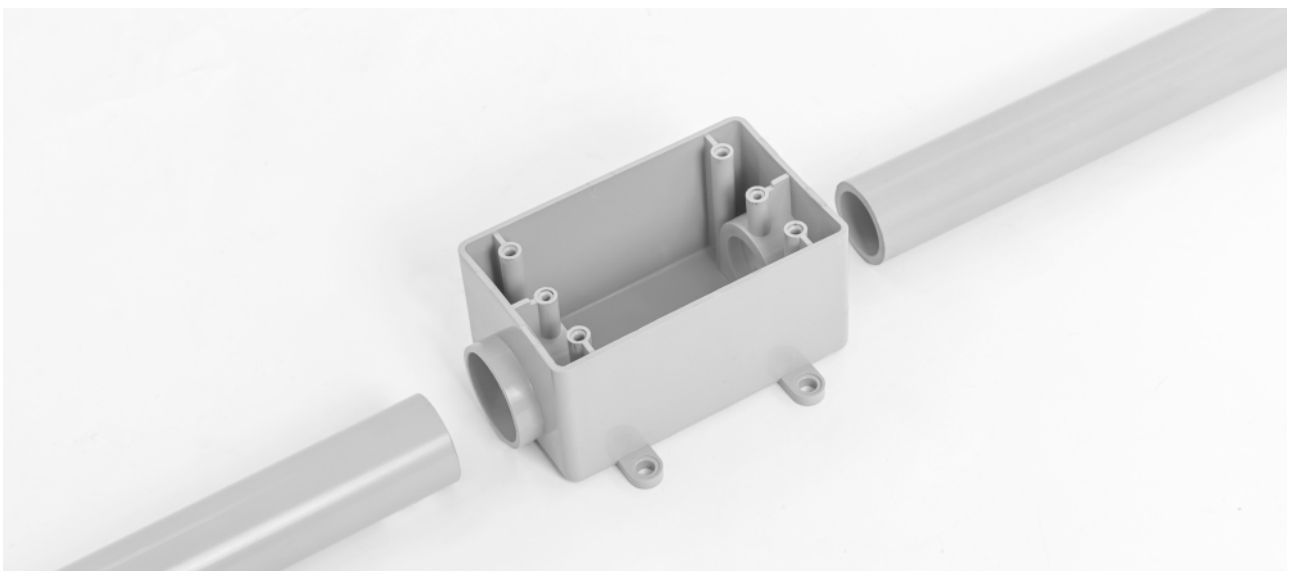
Standards:
 UL651, IEC61386-1,
 IEC61386-21, ISO9001,
 UL94, ASTM



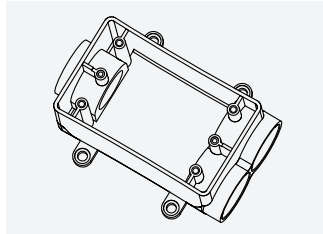
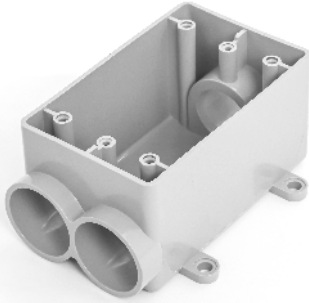
Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Non-conductive.
- ◆ For use with Sch40 & Sch80 conduit.
- ◆ Ideal for use in concrete.

Products code	Type	L(in)	H (in)
CT-HFSGO2SA	1/2	4.951	2.375
CT-HFSGO2SA	3/4	4.951	2.375
CT-HFSGO2SA	1	4.951	2.375



LSZH Single Gang Outlet Box 3 Way



Standards:

UL651, IEC61386-1,
IEC61386-21, ISO9001,
UL94, ASTM

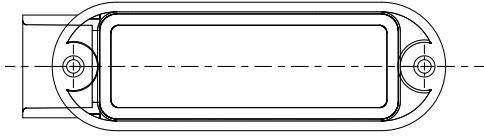


Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Non-conductive.
- ◆ For use with Sch40 & Sch80 conduit.
- ◆ Ideal for use in concrete.

Products code	Type	L(in)	H (in)
CT-HFSGO3A	1/2	4.951	2.375
CT-HFSGO3B	3/4	4.951	2.375
CT-HFSGO3C	1	4.951	2.375

LSZH Conduit Bodies Type E



Standards:
 UL651, IEC61386-1,
 IEC61386-21, ISO9001,
 UL94, ASTM

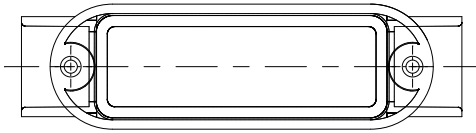


Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Non-conductive.
- ◆ For use with Sch40 & Sch80 conduit.

Products code	Type	L(in)	W (in)
CT-HFCBTEA	1/2	4.316	1.311
CT-HFCBTEB	3/4	5.248	1.500
CT-HFCBTEC	1	6.259	1.752
CT-HFCBTED	1-1/4	7.976	2.500
CT-HFCBTEE	1-1/2	8.610	2.626
CT-HFCBTEF	2	10.658	3.126

LSZH Conduit Bodies Type C



Standards:

UL651, IEC61386-1,
IEC61386-21, ISO9001,
UL94, ASTM

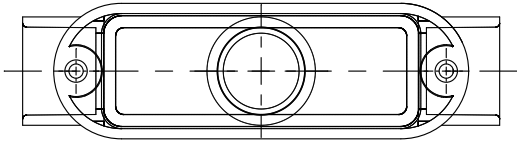


Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Non-conductive.
- ◆ For use with Sch40 & Sch80 conduit.

Products code	Type	L(in)	W (in)
CT-HFCBTCA	1/2	4.617	1.311
CT-HFCBTCB	3/4	5.693	1.500
CT-HFCBTCC	1	6.828	1.752
CT-HFCBTCD	1-1/4	8.628	2.500
CT-HFCBTCE	1-1/2	9.346	2.626
CT-HFCBTCF	2	11.454	3.126

LSZH Conduit Bodies Type TB



Standards:

UL651, IEC61386-1,
IEC61386-21, ISO9001,
UL94, ASTM

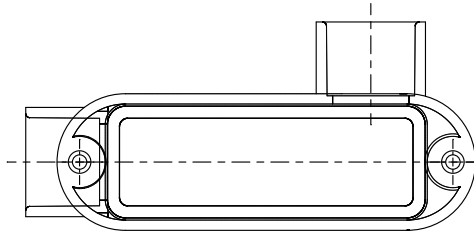


Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Non-conductive.
- ◆ For use with Sch40 & Sch80 conduit.

Products code	Type	L(in)	W (in)
CT-HFCBTTBA	1/2	4.617	1.311
CT-HFCBTTBB	3/4	5.693	1.500
CT-HFCBTTBC	1	6.828	1.752
CT-HFCBTTBD	1-1/4	8.628	2.500
CT-HFCBTTBE	1-1/2	9.346	2.626
CT-HFCBTTBF	2	11.454	3.126

LSZH Conduit Bodies Type LL



Standards:

UL651, IEC61386-1,
IEC61386-21, ISO9001,
UL94, ASTM

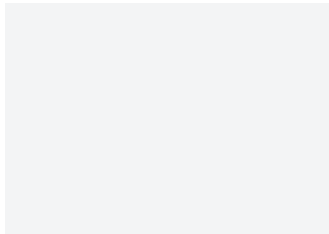
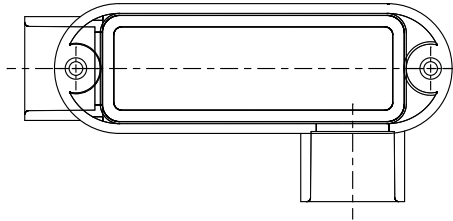


Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Non-conductive.
- ◆ For use with Sch40 & Sch80 conduit.

Products code	Type	L(in)	W (in)
CT-HFCBTLLA	1/2	4.316	1.311
CT-HFCBTLLB	3/4	5.248	1.500
CT-HFCBTLLC	1	6.259	1.752
CT-HFCBTLLD	1-1/4	7.976	2.500
CT-HFCBTLLE	1-1/2	8.610	2.626
CT-HFCBTLLF	2	10.658	3.126

LSZH Conduit Bodies Type LR



Standards:
 UL651, IEC61386-1,
 IEC61386-21, ISO9001,
 UL94, ASTM

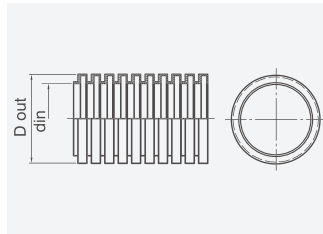
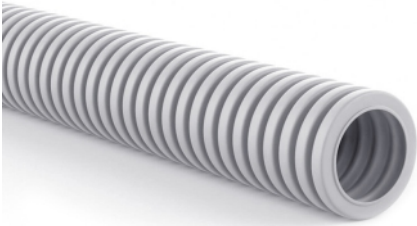


Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Non-conductive.
- ◆ For use with Sch40 & Sch80 conduit.

Products code	Type	L(in)	W (in)
CT-HFCBTLRA	1/2	4.316	1.311
CT-HFCBTLRB	3/4	5.248	1.500
CT-HFCBTLRC	1	6.259	1.752
CT-HFCBTLRD	1-1/4	7.976	2.500
CT-HFCBTLRE	1-1/2	8.610	2.626
CT-HFCBTLRF	2	10.658	3.126

HF Electrical Nonmetallic Tubing



Standards:

UL1653, IEC61386-1, IEC61386-21
IEC60754-2, ASTM E662,
ISO19700, UL94

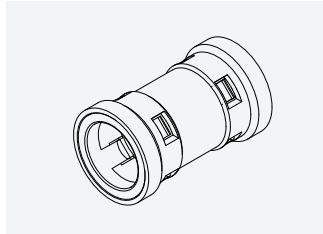


Properties

- ◆ UL1653, CSA C22.2 No.227.1
- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Bend by hand.
- ◆ Impact resistant.
- ◆ Sunlight resistant.
- ◆ Self extinguishing, fire resistant.
- ◆ Suitable for underground or above ground applications.
- ◆ Colors in Blue, Red and Yellow are available, or customized.
- ◆ Packaging: Coils or Reels.
- ◆ FT4 rated.

Item No.	Size	Average OD		Average ID	
		Inches	mm	Inches	mm
CT-ENTALSZH	1/2	0.840	21.34	0.602	15.29
CT-ENTBLSZH	3/4	1.050	26.67	0.804	20.42
CT-ENTCLSZH	1	1.315	33.40	1.029	26.14
CT-ENTDLSZH	1-1/4	1.660	42.17	1.360	34.55
CT-ENTELSZH	1-1/2	1.900	48.26	1.590	40.39
CT-ENTFLSZH	2	2.375	60.36	2.047	51.99
CT-ENTGLSZH	2-1/2	2.866	72.80	2.469	62.70

LSZH ENT Coupling



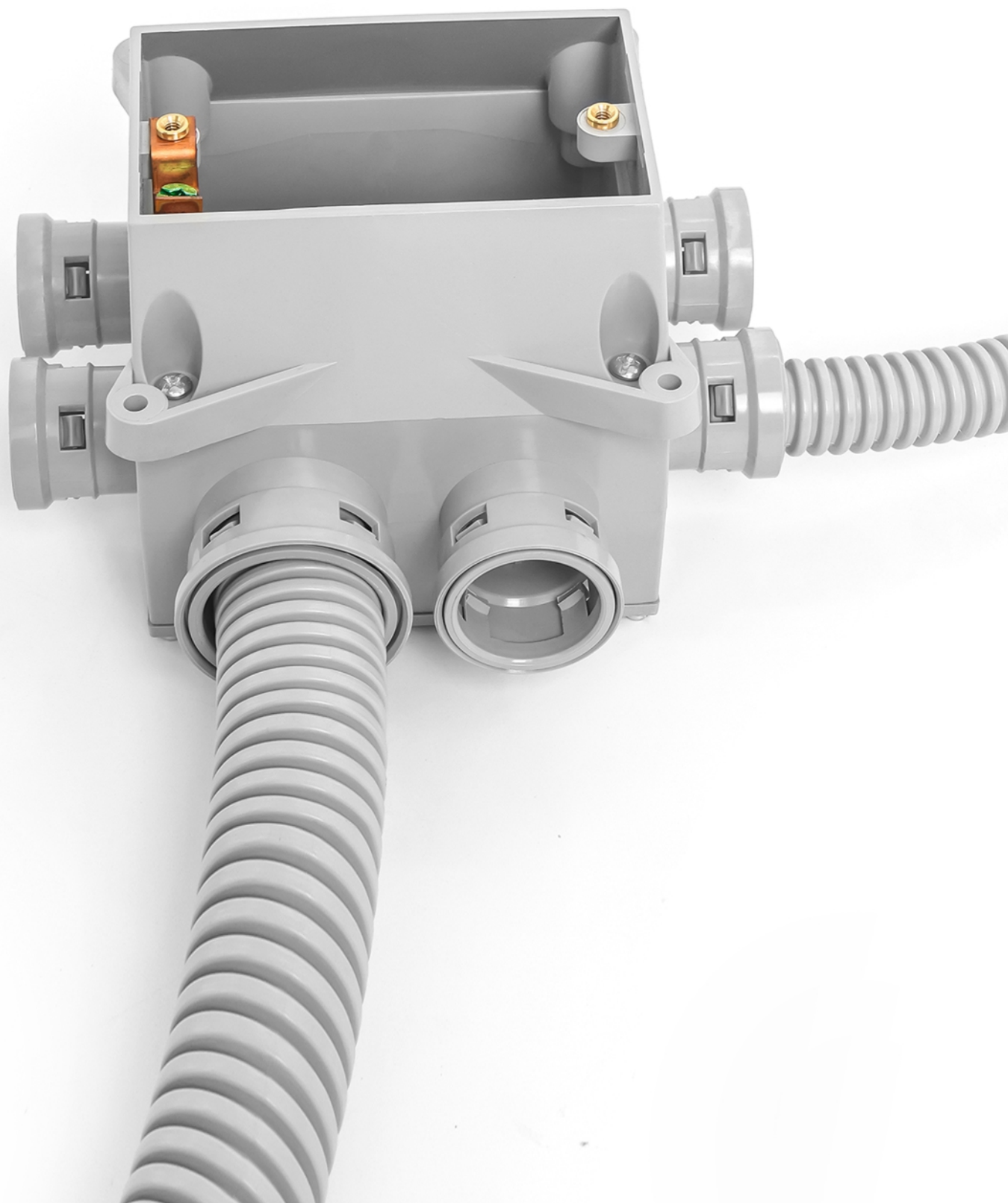
Standards:
 UL651, IEC61386-1,
 IEC61386-21, ISO9001,
 UL94, ASTM



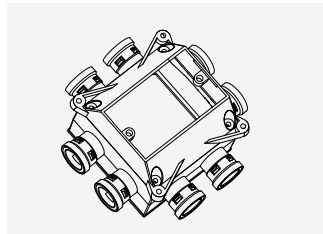
Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ For use with ENT slab square box.
- ◆ Comply with UL1653 standard.

Products code	Type	L(in)	W (in)
CT-ECALSZH	1/2	1.988	1.213
CT-ECBLSZH	3/4	2.047	1.417
CT-ECCLSZH	1	2.343	1.764



LSZH ENT Deep Concrete Wall Box



Standards:

UL651, IEC61386-1,
IEC61386-21, ISO9001,
UL94, ASTM

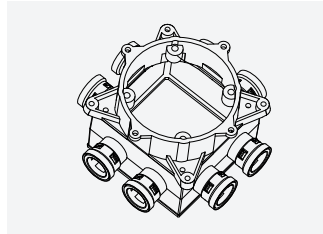
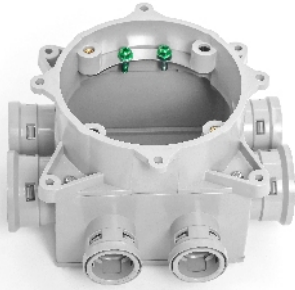


Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Non-conductive, impact and corrosion resistant.
- ◆ Concrete tight.

Products code	Type	L(in)	H (in)
HH-EDCWALSZH	8X1/2	6.00	3.587
HH-EDCWBSLZH	8X3/4	6.00	3.587
HH-EDCWCLSZH	4X1/2, 4X3/4	6.00	3.587
HH-EDCWDLSZH	4X1/2, 2X3/4, 2X1	6.00	3.587
HH-EDCWELSZH	4X3/4, 4X1	6.00	3.587

LSZH ENT Slab Round Box



Standards:
 UL651, IEC61386-1,
 IEC61386-21, ISO9001,
 UL94, ASTM

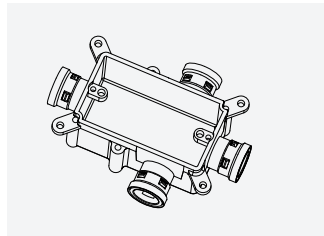
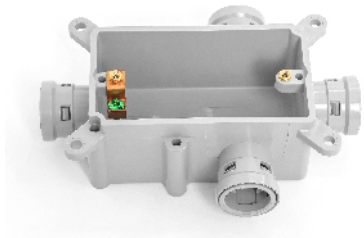


Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Non-conductive.
- ◆ For use with ENT tubing.

Products code	Type	L(in)	H (in)
HH-ESRALSZH	8X1/2	6.00	3.587
HH-ESRBLSZH	8X3/4	6.00	3.587
HH-ESRCLSZH	4X1/2, 4X3/4	6.00	3.587
HH-ESRDLSZH	4X1/2, 2X3/4, 2X1	6.00	3.587
HH-ESRELSZH	4X3/4, 4X1	6.00	3.587

LSZH ENT Concrete Wall Box



Standards:
 UL651, IEC61386-1,
 IEC61386-21, ISO9001,
 UL94, ASTM



Properties

- ◆ No halogens, safer to use in confined spaces and public buildings.
- ◆ Very low smoke and low toxicity generation.
- ◆ Excellent temperature range, from -45°C to +150 °C.
- ◆ Non-conductive.
- ◆ For use with ENT tubing.
- ◆ Ideal for use in concrete.

Products code	Type	L(in)	H (in)
HH-ECWALSZH	1/2	6.24	2.008
HH-ECWBLSZH	3/4	6.24	2.008





Head Office

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